

IN THE SPECIFICATION:

The specification as amended below with replacement paragraphs shows added text with underlining and deleted text with ~~striketrough~~.

Please REPLACE the paragraph beginning at page 29, line 22, with the following paragraph:

As shown in FIG. ~~20~~10, the point $(st, 0)$ corresponding to the leftmost point L_k of the category 5 is searched for by inversely tracing the optimum route to the point (x, y_1) corresponding to the rightmost point R_k of the category 5. When the point $(st, 0)$ corresponding to the leftmost point L_k , the value st on the x axis is defined as the starting point of the category 5 at the coordinate x .